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ABSTRACT

A method of minimizing oil consumption in a gas turbine engine, by avoiding reliance on air intake into the engine oil circuit for bearing chamber oil sealing purposes. The engine oil circuit has bearing chambers with hydropad seals between the shaft and bearing chamber. During engine operation the ring rotates to cast oil radially outwardly from the shaft axis toward the outer periphery of the bearing chamber under centrifugal force, independently of any gas pressure differential across the sealing surfaces of the hydropad seal.